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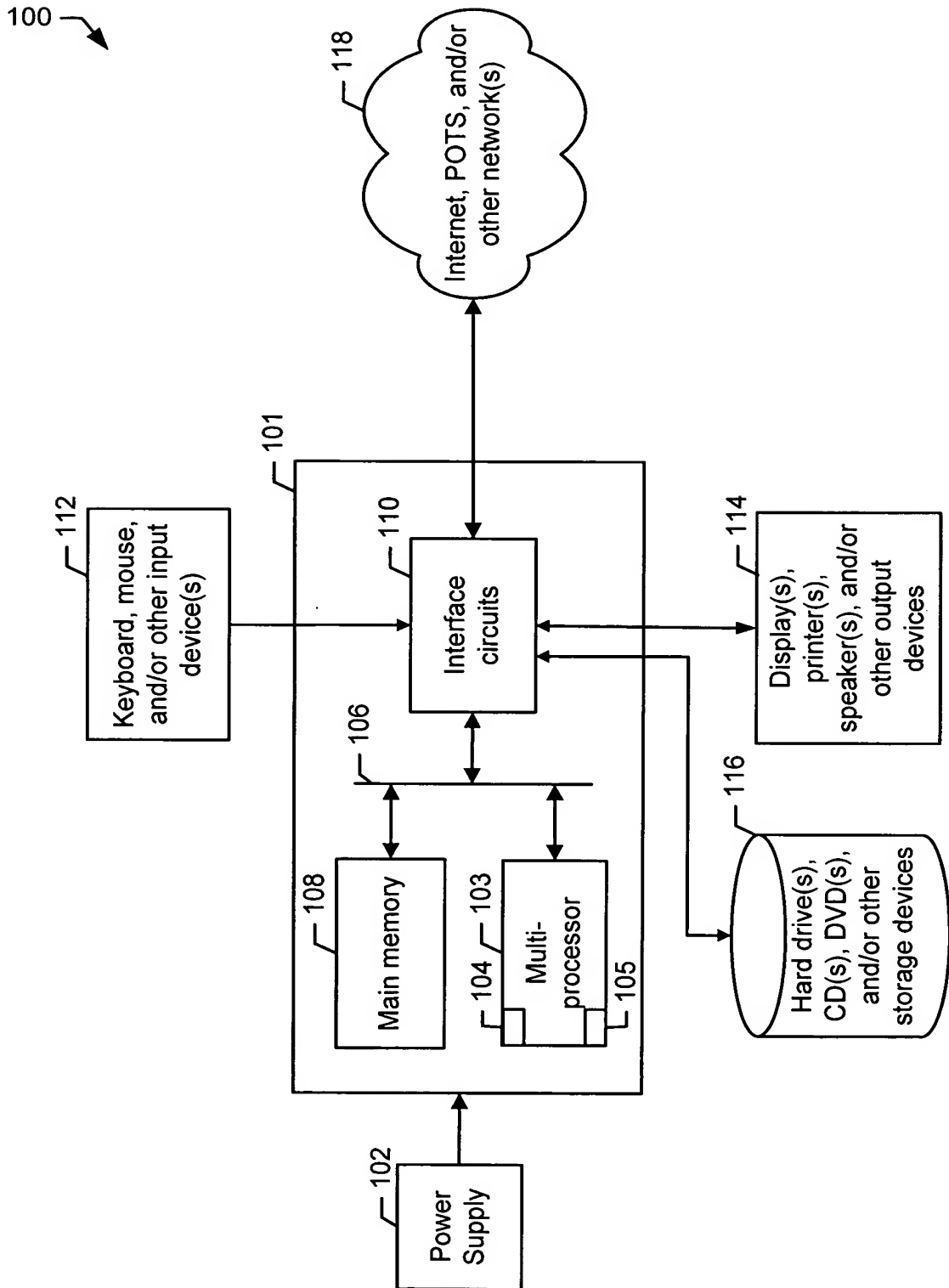


FIG. 1

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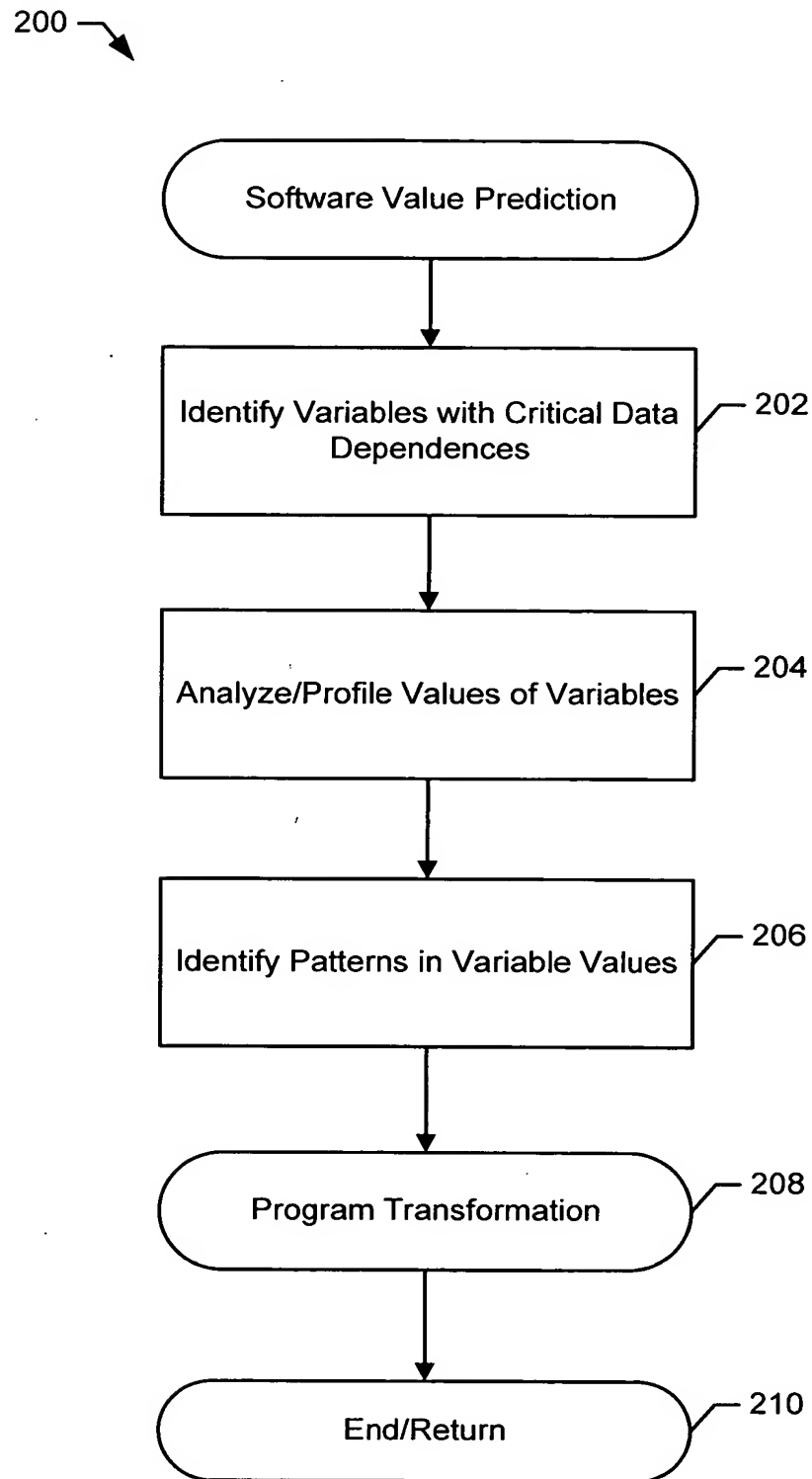


FIG. 2

300

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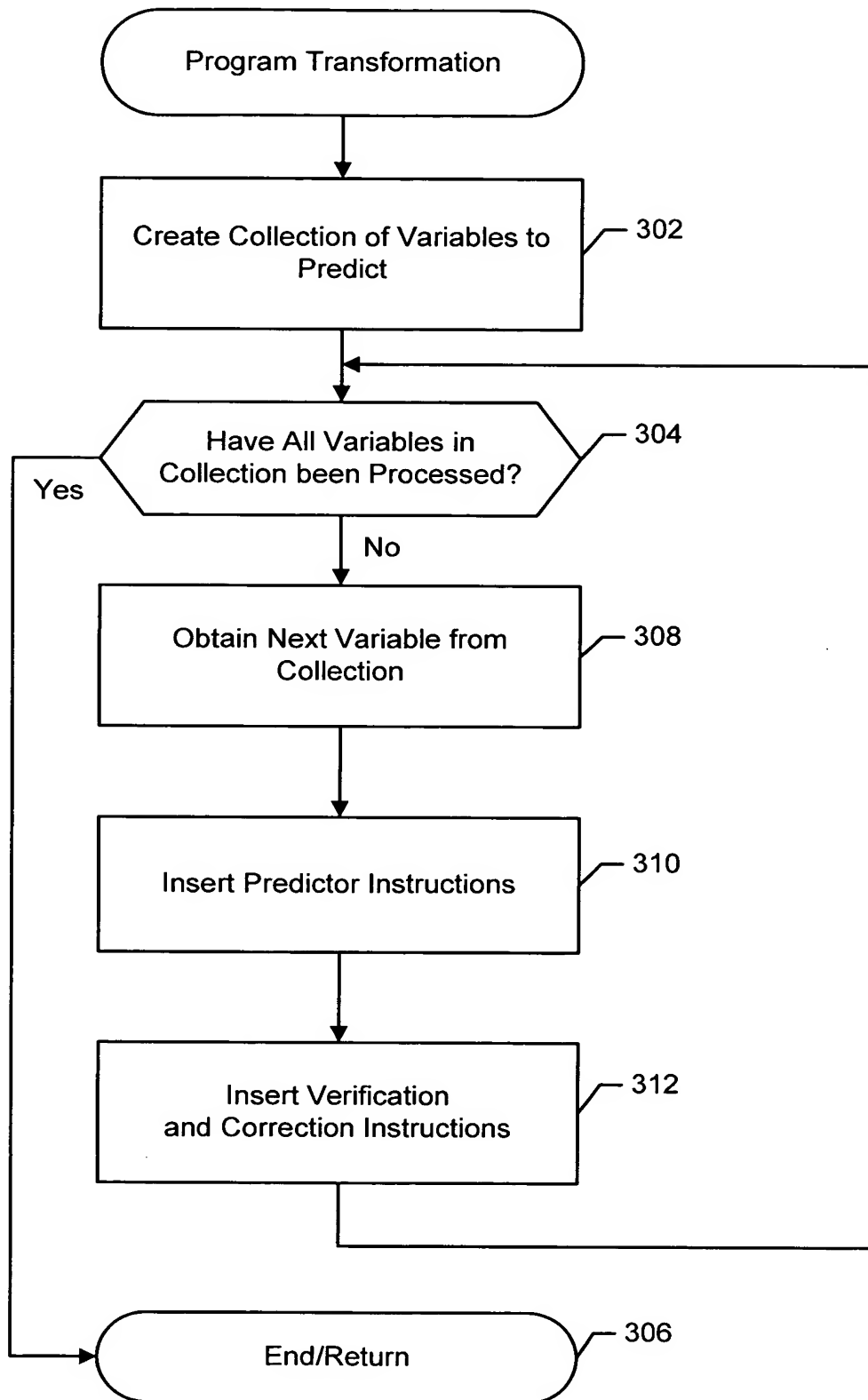


FIG. 3

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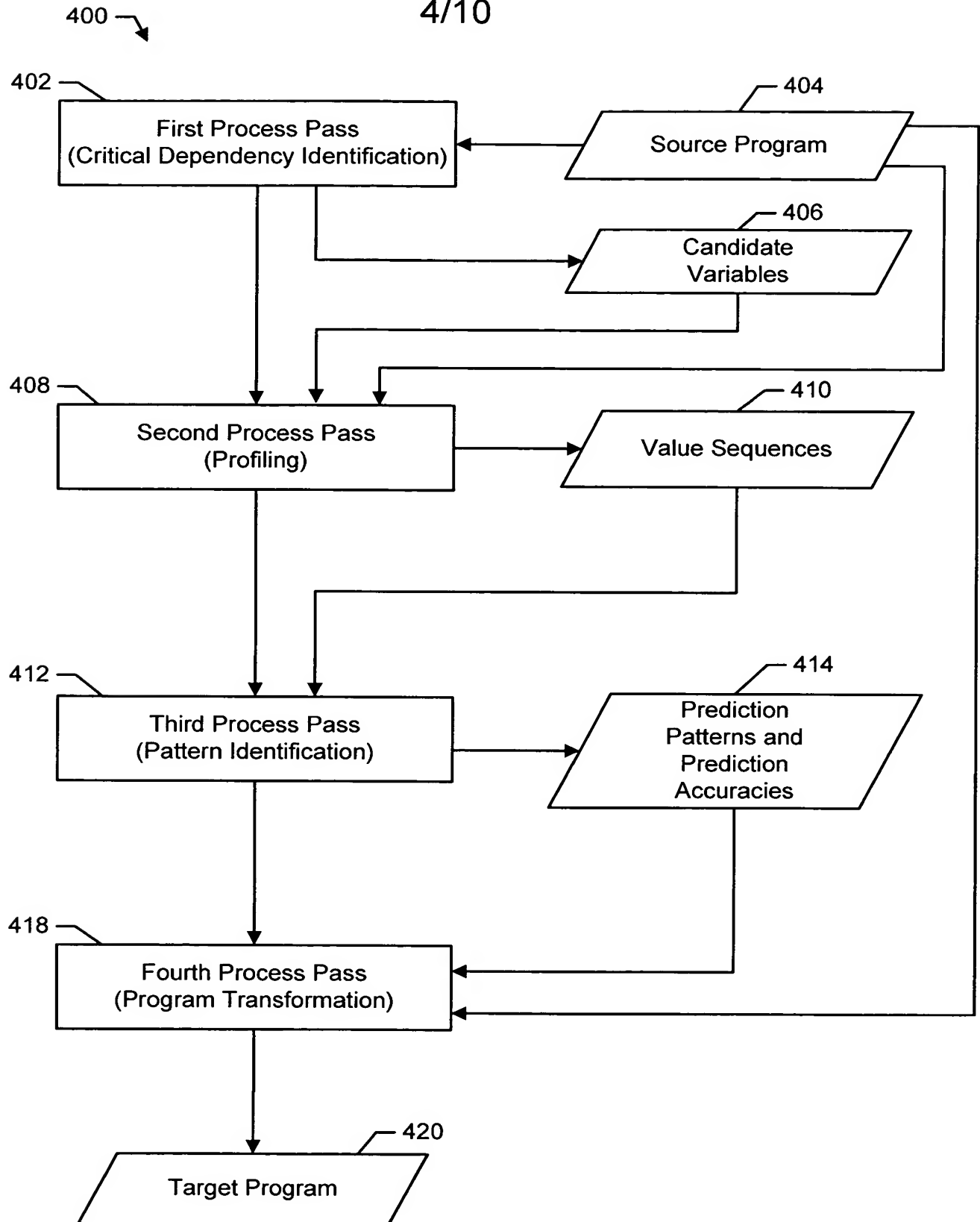



FIG. 4


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500 

```
502:  foo( x );  
504:  S1;  
506:  x = bar();  
508:  S2;  
510:  S3;  
512:  tar( x );  
514:  S4;
```

FIG. 5


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600 

```
602:   pred_x = pred( );
604:   speculative_tar( pred_x );
502:   foo( x );
504:   S1;
506:   x = bar();
508:   S2;
510:   S3;
606:   if( x != pred_x )
608:       recover_tar( x );
514:   S4;
```

FIG. 6


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700 

```
702:    L:  S1;  
704:      fork( L );  
706:      S2;  
708:      foo( x );  
710:      S3;  
712:      x = bar( );  
714:      S4;  
716:      if (cont) goto L;
```

FIG. 7

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800 

```
802:      pred_x = x;
804:  L:    x = pred_x;
806:      pred_x = pred( );
702:      S1;
704:      fork( L );
706:      S2;
708:      foo( x );
710:      S3;
712:      x = bar( );
714:      S4;
808:      if (x != pred_x)
810:          pred_x = x;
716:      if (cont) goto L;
```

FIG. 8



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900 →

901: Main Thread:

902: L: S1;  
904: fork( L );  
906: S2;  
910: foo( x );  
914: S3;  
918: x = bar( );  
922: S4;  
926: if (cont) goto L;

903: Speculative Thread:

908: L: S1;  
912: fork( L );  
916: S2;  
920: foo( x );  
924: S3;  
928: x = bar( );  
930: S4;  
932: if (cont) goto L;

FIG. 9

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1000 —▶

1001: Main Thread:

```
1002:    pred_x = x;  
1004:    L: x = pred_x;  
1006:    pred_x = pred( );  
1008:    S1;  
1010:    fork( L );  
1012:    S2;  
1016:    foo( x );  
1020:    S3;  
1024:    x = bar( );  
1028:    S4;  
1032:    if (x != pred_x)  
1036:        pred_x = x;  
1040:    if (cont) goto L;
```

1009: Speculative Thread:

```
1014:    L: x = pred_x;  
1018:    pred_x = pred( );  
1022:    S1;  
1026:    fork( L );  
1030:    S2;  
1034:    foo( x );  
1038:    S3;  
1042:    x = bar( );  
1044:    S4;  
1046:    if (x != pred_x)  
1048:        pred_x = x;  
1050:    if (cont) goto L;
```

FIG. 10